



Government of Andhra Pradesh

ABSTRACT

Fisheries Department – Guidelines for culture of L.vannamei in fresh water / inland farms- Orders- Issued.

ANIMAL HUSBANDRY, DAIRY DEVELOPMENT & FISHERIES (FII) DEPARTMENT

GO Ms No.15

Dated.29-04-2013

Read the following..

- 1) Guidelines communicated by the Fisheries Dev. Commissioner, GOI, Ministry of Agriculture, Dept of AH,D & Fisheries, New Delhi in Lr. No. 35029/13/2010-Fy(Trade) dated 21-12-2012.
- 2) GO Ms No.7, AH,DD&F(FII) Dept., dated 16-3-2013.
- 3) GO.Ms.No.8, AH,DD&F(FII)Dept., dated. 25-03-2013.

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ORDER:

In the letter 1st read above the Government of India have communicated approved guidelines that the farmers who desire to culture the exotic species, L.vannamei in fresh water/inland farms located outside the jurisdiction of the Coastal Aquaculture Authority(CAA), having a water salinity of 0.5ppt shall be required to register their farms with the State Fisheries Department. However, the farms located within the jurisdiction of the CAA shall register with CAA only.

2. In the Government Orders (2nd) read above the Government have issued consolidated orders for regulation of Fresh Water Aquaculture. Clause 7.25 of the GO (under procedure to be followed by the DLC for registration) reads as follows '*All indigenous culturable species, unless prohibited by the Government can be cultured. Exotic species can be cultured only after obtaining relevant permissions from Competent Authorities*'

3. In pursuance of the guidelines for culture of Litopenaeus vannamei in freshwater/inland farms communicated by Government of India and orders issued in the GO 2nd read above; Government after careful examination of the matter, hereby issue the following guidelines and instructions for culture of L.vannamei in fresh water / inland farms located outside the jurisdiction of the Coastal Aquaculture Authority (CAA) having a water salinity of 0.5ppt :-

1. No person shall carry on the culture of L.vannamei in fresh water / inland waters without permission in accordance with this Order.
2. The District Level Committee (DLC) constituted in the GO (2nd) read above shall be the Competent Authority to permit the culture of L.vannamei in fresh water / inland farms located outside the jurisdiction of CAA.
3. Permission for taking up culture of L.vannamei shall be accorded only to farms which have been already registered with the Fisheries Department and which have complied with the guidelines in the GO (2nd) read above.

P.T.O

A) Guidelines for granting permission for culture of *L.vannamei* in fresh water / inland waters:

1. The DLC shall consider only the farms which are outside the jurisdiction of the CAA and water salinity in the farm is above 0.5 ppt.
2. Permission shall be accorded within 60 days basing on the recommendations of the inspections conducted by the DLC members regarding the suitability of the farm for farming of *L.vannamei*.
3. Stocking density should not exceed 60 number / sq. m.
4. The farm should maintain a detailed record of the name and address of the hatchery from where the seed is procured , quantity of seed procured, water quality parameters and daily feeding data during the culture period in the prescribed format.
5. Banned drugs and antibiotics should not be used (list appended)
6. The farm must establish adequate bio-security measures including crab fencing, bird scare and separate implements for each of the ponds.
7. If the farm is not connected to the outside water sources (rivers, canals, lakes etc.) the reservoirs need not be insisted for disinfection.
8. The farms with connections to open fresh water sources like rivers or canals or lakes etc. which are geographically adjoining to brackish water areas, irrespective of their size should have an Effluent Treatment system (ETS) . The quality of treated water should conform to the standards of the standards prescribed by the A.P. Pollution Control Board.
9. In case of any outbreak of disease , the farmer shall report immediately to District Fisheries Officer . Distress harvesting is permitted through netting only and the discharge water should be chlorinated and dechlorinated before release into drainage systems.
10. Farms approved for *L.vannamei* culture shall not be permitted for farming of any other crustacean species simultaneously.
11. Tested and certified seed should be procured only from the hatcheries approved by the CAA for *L.vannamei* seed production.
12. For ponds not connected with open water sources , the accumulated organic wastes should be removed and disposed of safely.
13. Farms located within the jurisdiction of CAA shall register with CAA invariably.

B) Advisories for sustainable culture of SPF *L.vannamei* in fresh water/ inland farms.

- a) It is advisable not to culture in fresh water with 0 ppt salinity since it could lead to poor growth, poor survival and poor quality (muddy mould, smell etc.)
- b) Lower stocking rate is advised to reduce the operation cost and improve sustainability.
- c) Gradual acclimatization of the post larvae to the existing salinity conditions is very important for ensuring good survival.
- d) Younger stages of larvae below 15 days age old will not be able to tolerate lower salinities, hence PL15 and above should be used.

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- e) In case of inland saline water culture, the ionic composition of pond water should be assessed continuously with respect to Potassium, Magnesium and Calcium for making necessary amendments.
- f) Feed with proper fortification of minerals as required should be followed for ensuring better survival rate and growth.
- g) Only probiotics suitable to the culture environment should be used.

4. For all other purposes such as for penalties, violations etc., GO.Ms.No.7, dated. 16-03-2013 shall be applicable.

5. Applications for taking up culture of L.Vannamei and inspection of the freshwater aquaculture form for granting permission for culture of L.vannamei in freshwater / inland farms are annexed to this order.

6. The Commissioner of Fisheries, A.P. Hyderabad and the District Collectors concerned shall take all necessary actions accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

MANMOHAN SINGH
PRINCIPAL SECRETARY TO GOVERNMENT

To
The Commissioner of Fisheries, A.P, Hyderabad
All District Collectors /District Fisheries Officers
Through:- The Commissioner of Fisheries, ,Hyderabad.
Member Secretary, Coastal Aquaculture Authority, Chennai.
Joint Commissioner(Fisheries) Government of India, New Delhi.
SF/SC.

// FORWARDED::BY ORDER //

SECTION OFFICER

Application for taking up culture of L.vannamei in fresh water/ inland farms

DATE OF APPLICATION:

APPLICATION NO: (to be given by the DFO Office)

(1)	Name of the applicant/registered Company/ Establishment in BLOCK LETTERS with permanent address)	
(2)	Address for communication (in BLOCK LETTERS)	
(3)	Details of land for which registration is applied for	
	a) District b) Mandal c) Revenue village d) Survey No e) Ownership right (whether free hold or leasehold, if leasehold specify the period of lease-from date to date)	
(4)	Registration no. of the DLC for fresh water regulation (Xerox copy to be enclosed)	
(5)	If already operating, furnish details of present-last culture i.e., species cultured, date of stocking, date of harvesting, present status of farm	
(6)	Details of the farm i)total farm area (in ha.) ii)water spread area (in ha.) iii)brief location of the farm iv)source of water supply (whether sea based, or creek/estuary/canal/backwater based)	
(7)	Area proposed to be brought under vannamei culture in the next one year period-whether single crop or more	
(8)	Whether there is any tie-up with hatcheries supplying vannamei (indicate probable supplier of seed and distance and system proposed to transport seed)	
(9)	Proposed stocking density of seed	
(10)	Total requirement of seed per crop	
(11)	Indicate the source of feed and feed management proposed	
(12)	Contingency plan to tackle any disease problem (including facilities available for disease diagnosis)	
(13)	Antibiotics or pro-biotics, if any, proposed to be used	
(14)	Are you proposing to install aerators, if yes, no. and capacity, if not, what is the mechanism proposed to maintain oxygen level in the ponds	
(15)	Indicate existing/proposed water exchange system (zero water exchange may be indicated in the farm)	
(16)	Provisions for fencing birdscare, arrangements for up keep of implements for daily use	
(17)	Duration of culture (each crop and the average size of shrimp proposed to be harvested)	
(18)	Whether any adjoining farms are culturing P.monodon or any species	

(19)	Whether the farm has ETS, if so, give details indicating as to how the waste water is to be discharged	
(20)	If the farm is in a cluster, whether a common effluent, treatment system (ETS) is provided, if so, the details	
(21)	Whether the applicant has his own processing facility or regular tie up with any registered processing units	
(22)	What is the marketing arrangements available now/proposed in future	
(23)	Training received for L.vannamei culture, if nay	
(24)	Arrangements for record maintenance for management purposed (details regarding seed source and quantity, feed source and quantity of feed used, quantity harvested per crop, harvest and sale of shrimp)	

Signature of the Applicant

Place:Name:_____

Date:Address:_____

Declaration by the Applicant

I/WeSon/ Daughter /Wife ofresiding at hereby declare that the information furnished above is true to the best of my/our and behalf . I/We are fully aware that if it is found that the information furnished in the application is false or there is any deviation /violation of the conditions of registration or the guidelines or rules stipulated in the G.O.Ms.No. or of the relevant Government Orders issued by Government from time to time, action as deemed fit may be taken against me/us.

SIGNATURE

Application for inspection of the fresh water aquaculture farm for granting permission for culture of L.vannamei in fresh water/inland farms

DATE OF APPLICATION:
APPLICATION NO: (to be given by the DFO Office)

(1)	Name of the applicant/registered Company/ Establishment in BLOCK LETTERS with permanent address)	
(2)	Address for communication (in BLOCK LETTERS)	
(3)	Details of land for which registration is applied for	
	a) District b) Mandal c) Revenue village d) Survey No e) Ownership right (whether free hold or leasehold, if leasehold specify the period of lease- from date to date) f) Total farm area g) Water spread area	
(4)	Source of water supply (whether sea based or creek/estuary/canal/backwater, etc.,)	
(5)	If already operating, furnish details of present/last culture, i.e., species cultured, date of stocking, date of harvesting, present status of farm.	
(6)	Total area proposed to be brought under L. vannamei culture	
(7)	Whether there is any tie up with hatcheries supplying SPF L.vannamei	
(8)	Proposed stocking density of seed	
(9)	Total requirement of seed per crop	
(10)	Indicate the proposed source of feed (specify brand and company name) facilities available for diagnosis in the farm or any tie up with lab	
(11)	Are you proposing to install aerators, if yes, no. and capacity	
(12)	Indicate existing/proposed water exchanged system (zero water exchange etc) in the farm	
(13)	Provisions for fencing, bird scare, agreements for upkeep of implements for daily use	
(14)	Duration of culture (each crop) and the average size of shrimp proposed to be harvested	
(15)	Whether any adjoining farms available	
(16)	Whether any adjoining farms culturing any other species, if so specify	
(17)	Whether the farm has ETS; if so, give details indicating as to how the waste water is proposed to be discharged. The capacity of ETS; (lay-out of farm with details of EST required)	
(18)	If the farms is in a cluster, whether the common effluent treatment system	

	(ETS) is provided, if so, give details of the proposed disposal of waste water	
(19)	Whether the applicant has his own processing facility or regular tie up with any registered processing units.	
(20)	What is the marketing arrangements available now/proposed in future	
(21)	Whether any training is acquired for L.vannamei culture	
(22)	Technicians name (S) and qualifications	
(23)	Arrangements for record maintenance for management purposes. (details regarding sea source and quantity, feed source and quantity of feed used, quantity of shrimp harvested per crop, harvest and sale of shrimp) Environmental parameters proposed to be monitored. On-farm and effluents. Details of any disease occurrence	
(24)	Any social problems in the area	

Remarks

Recommended/ Not Recommended